

Abstract of the Disclosure

A biomolecule microarray support for spotting solutions containing probe biomolecules on the surface and immobilizing the probe biomolecules in the solutions to the surface, characterized in that a plurality of small-sized probe biomolecule-attachable spots are arrayed in a regular arrangement on the surface of the support. A biomolecule microarray, made by spotting solutions containing probe biomolecules on the biomolecule-attachable spots on the support and immobilizing the biomolecules to the spots, can be used for quantitative analysis because of uniform and unvarying numbers of probe biomolecules bound to the spots. It also makes possible high S/N ratio measurement because of prevented nonspecific adsorption of target biomolecules to the surface of the support other than the detection spots. The biomolecule microarray support is fabricated precisely and efficiently by the method of the present invention using the photolithography and etching technique.